International application No. PCT/AU2004/001116

| | | | 102/110200 1/001110 |
|-----------------|---|---|--|
| A. (| CLASSIFICATION OF SUBJECT MATTER | | |
| Int. Cl. 7: | A61K 38/19, A61P 37/06, C07K 15/53, C12N 5 | 5/08 | |
| According to I | International Patent Classification (IPC) or to both na | tional classification and IPC | |
| В. | FIELDS SEARCHED | | |
| Minimum docur | mentation searched (classification system followed by class | sification symbols) | |
| | searched other than minimum documentation to the extent | | in the fields searched |
| | • | | |
| Electronic data | base consulted during the international search (name of da | ta base and, where practicable, se | arch terms used) |
| versus host d | DLINE CA: polyehtylene glycol, granulocyte co lisease, gyhd, transplant, autotransplant, tolerand | ce, donor, autoimmune, t ce | 11, allogenic, interleukin 10, |
| il10, stem ce | | | |
| C. | DOCUMENTS CONSIDERED TO BE RELEVANT | | |
| Category* | Citation of document, with indication, where appro | priate, of the relevant passage | Relevant to claim No. |
| | Arpinati M et al, "Granulocyte-colony stimula | | per 2- |
| x | inducing dendritic cells", <i>Blood</i> , 2000, 95(8):2 whole of document | 2484-2490 | 1-5, 8-42, 45-51, |
| , A | whole of document | | 62-74, 77-79 |
| Y | whole of document | | 6, 7, 43, 44, 75, 76 |
| | Pan L et al, "Pretreatment of Donor Mice Wit | | |
| | Factor Polarizes Donor T Lymphocytes Towa Reduces Severity of Experimental Graft-Vers | | |
| | 86(12):4422-4429 | as Tiobi Diboaso , Dioon, 1. | · |
| × | whole of document | | 1-5, 8-25, 29-42, 46-51, 62-74, 77-79 |
| Y | whole of document | | 6, 7, 43, 44, 75, 76 |
| X F | Further documents are listed in the continuation | of Box C X See p | atent family annex |
| | categories of cited documents: | 1 0 0 0 0 0 | ational Elica data as majority data and not in |
| | sidered to be of particular relevance con | flict with the application but cited to | ational filing date or priority date and not in understand the principle or theory |
| "E" earlier a | application or patent but published on or after the "X" doc | cannot be considered to involve an in | imed invention cannot be considered novel ventive step when the document is taken |
| or whic | ent which may throw doubts on priority claim(s) "Y" doo th is cited to establish the publication date of inv | curnent of particular relevance; the cla volve an inventive step when the docu | imed invention cannot be considered to ment is combined with one or more other |
| "O" docume | ent referring to an oral disclosure, use, exhibition | th documents, such combination being curnent member of the same patent far | g obvious to a person skilled in the art mily |
| "P" docume | r means ent published prior to the international filing date er than the priority date claimed | · | |
| | tual completion of the international search | Date of mailing of the internation | onal search report |
| 19 Novemb | | 1.1 | 5-DEC-2004 |
| | iling address of the ISA/AU | Authorized officer | , p = 0 100 1 |
| PO BOX 200. | N PATENT OFFICE , WODEN ACT 2606, AUSTRALIA | CARETH COOK | |
| E-mail address | s: pct@ipaustralia.gov.au (02) 6285 3929 | GARETH COOK Telephone No: (02) 6283 25 | 541 |
| raconnie ivo. | (02) 0203 3323 | 1 elephone No : (02) 0203 23 | /T1 |

International application No.

PCT/AU2004/001116

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|--|-------------------------|
| | Pan L et al, "Granulocyte Colony-Stimulating Factor-Mobilized Allogeneic Stem Cell Transplantation Maintains Graft-Versus-Leukemia Effects Through a Perforin-Dependent Pathway While Preventing Graft-Versus-Host Disease" Blood, 1999, | |
| | 93(12):4071-4078 | 1-5, 8-15, |
| X | whole of document | 26-37, 72-74, 77-79 |
| Y | whole of document | 6, 7, 43, 44, 75, 76 |
| | Willis F et al, "Pegfilgrastim", Expert Opinion on Biological Therapy, 2002, 2(8):985- | |
| Х | whole of document | 52-61 |
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| | Li EC, "Pegfilgrastim", Journal of the Pharmacy Society of Wisconsin, May/June 2003, 34-39 | |
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| | Yamasaki M et al, "Modification of Recombinant Human Granulocyte Colony Stimulating Factor (rhG-CSF) and Its Derivative ND28 with Polyethylene Glycol", Journal of Biochemistry, 1994, 115:814-819 | |
| X | whole of document | 52-61 |
| Ÿ | whole of document | 6, 7, 43, 44, 75, 76 |
| | Morris ES et al, "Donor treatment with pegylated G-CSF augments the generation of IL-10 producing regulatory T cells and promotes transplantation tolerance", Blood, 1 May 2004, 103(9):3573-3581 | |
| P, X | whole of document | 1-79 |
| | WO 2000/044785 A1 (Hoffman-La Roche Inc) 3 August 2000 | |
| Х | whole of document | 52-61, 69, 70 72-79 |
| | Molineux G et al, "A new form of Filgrastim with sustained duration in vivo and enhanced ability to mobilize PBPC in both mice and humans", Experimental Hematology, 1999, 27:1724-1734 | |
| Χ . | whole of document | 52-61, 69, 70 72-79 |
| | de Haan G et al, "Efficient mobilization of haematopoietic proginators after a single injection of pegylated recombinant human granulocyte colony-stimulating factor in mouse strains with disrtinct marrow-cell pools", British Journal of Haematology, 2000, 110:638-646 | |
| X | whole of document | 52-61, 69, 70 72-79 |
| | · | |
| | | |

International application No.

PCT/AU2004/001116

| Box No. II | Observations where certain claims were found unsearchable (Continuation of item 2 of first sneet) |
|-----------------|--|
| This internates | tional search report has not been established in respect of certain claims under Article 17(2)(a) for the following |
| 1. | Claims Nos.: |
| ٠. ا | because they relate to subject matter not required to be searched by this Authority, namely: |
| | because mey relate to subject matter not required to be sometime by the subject of the subject matter not required to be sometime. |
| | |
| | |
| | · |
| 2. X | Claims Nos.: 1-92 (partially) |
| | because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically: |
| | The claims in referring to a G-CSF-derivative, biologically active fragment, homolog or variant encompass |
| | any form of G-CSF. The specification only describes the derivative peg-G-CSF as having the properties |
| | desired, and there is no guidance in the description on other derivatives which have the desired properties. |
| | The claims have only been searched with respect to the derivative peg-G-CSF. |
| 3. | Claims Nos.: |
| | because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a) |
| Box No. II | I Observations where unity of invention is lacking (Continuation of item 3 of first sheet) |
| This Intern | ational Searching Authority found multiple inventions in this international application, as follows: |
| THIS ILLUID | introdus Sourching Management Annual Control of the |
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| | |
| | · |
| | |
| 1. | As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims. |
| 2. | As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee. |
| , , | As only some of the required additional search fees were timely paid by the applicant, this international search report |
| 3. | covers only those claims for which fees were paid; specifically claims Nos.: |
| | |
| | |
| 1 | |
| | the state of the s |
| 4. | No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: |
| | resulted to the invention hist monitoned in the claims, it is severed by claims 1.000. |
| | |
| | · |
| Remark o | on Protest The additional search fees were accompanied by the applicant's protest. |
| | |
| | No protest accompanied the payment of additional search fees. |

International application No.

Information on patent family members

PCT/AU2004/001116

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

| | Document Cited in Search Report | | · | Pater | nt Family Member | | |
|----|------------------------------------|----|----------|-------|------------------|----|------------|
| wo | 2000/044785 | AT | 246202 | CZ | 20012654 | NZ | 513113 |
| | | AU | 26185/00 | EP | 1157037 | SK | 10352001 |
| | | BG | 105851 | EP | 1369429 | US | 2003130193 |
| | | BR | 0007781 | HU | 0203652 | ZA | 200105932 |
| | | CA | 2361766 | NO | 20013700 | _ | |

Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

END OF ANNEX